

Publication

EP 0850930 A3 19980812 (EN)

Application

EP 97310641 A 19971229

Priority

- JP 35114896 A 19961227
- JP 35114996 A 19961227
- JP 33469297 A 19971204

Abstract (en)

[origin: EP0850930A2] The present invention relates to a process for producing alicyclic hydrazine derivatives, tetrahydropyridazine and hexahydropyridazine which are useful as intermediate starting materials such as medicines and agricultural chemicals. Especially, the present invention provides; a process for producing an alicyclic hydrazine derivative or its hydrohalogenic acid salt, which comprises reacting a hydrazine hydrohalogenic acid salt with a doil compound or an alicyclic ether compound in the presence of an excessive inorganic acid existing in a free form or in the form of an acid addition salt; a process for producing tetrahydropyridazine from 1-aminopyrrolidine, which comprises oxidizing 1-aminopyrrolidine with an oxidizing agent to form tetrahydropyridazine; and a process for producing hexahydropyridazine, which comprises oxidizing 1-aminopyrrolidine with an oxidizing agent, synthesizing tetrahydropyridazine, and thereafter, hydrogenating the tetrahydropyridazine in the presence of a base.

IPC 1-7

C07D 207/50; **C07D 295/28**; **C07D 237/04**; **C07D 231/04**

IPC 8 full level

C07D 237/04 (2006.01); **C07D 295/30** (2006.01); **C07D 487/04** (2006.01)

CPC (source: EP US)

C07D 237/04 (2013.01 - EP US); **C07D 295/30** (2013.01 - EP US); **C07D 487/04** (2013.01 - EP US)

Citation (search report)

- [DA] EP 0116198 A1 19840822 - JAPAN HYDRAZINE CO LTD [JP]
- [DAY] EP 0693482 A1 19960124 - IHARA CHEMICAL IND CO [JP]
- [A] EP 0304920 A2 19890301 - NISSAN CHEMICAL IND LTD [JP]
- [DA] R J CRAWFORD: "The synthesis and physical properties of some 1- and 2-Pyrazolines", JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 88, 1966, pages 3959 - 3963, XP002060180
- [DAA] PATENT ABSTRACTS OF JAPAN vol. 96, no. 8 30 August 1996 (1996-08-30)
- [DY] N.VISWANATHAN ET AL: "Novel ring enlargements of 1-aminopyrrolidines", TETRAHEDRON LETTERS, vol. 52, 1979, pages 5025 - 5026, XP002067412

Cited by

WO2014096042A1; FR2999574A1; CN102060781A; FR2874013A1; EP0894788A1; US5981764A; US7951952B2; WO2006094920A3; WO2006024778A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0850930 A2 19980701; **EP 0850930 A3 19980812**; **EP 0850930 B1 20011031**; DE 69707825 D1 20011206; DE 69707825 T2 20020411; US 5977360 A 19991102; US 6194577 B1 20010227

DOCDB simple family (application)

EP 97310641 A 19971229; DE 69707825 T 19971229; US 33760799 A 19990621; US 99816897 A 19971224